

COMPUTERS &GRAPHICS

An international journal of systems & applications in computer graphics

Algorithms and techniques for interaction, multimedia, modelling and visualization

EDITOR-IN-CHIEF: J. L. Encarnação



In this issue the special topic is
POINT BASED AND VOLUME GRAPHICS
Guest Editors: Mario Botsch, Baoquan Chen, Raghu Machiraju, Torsten Möller



computers & graphics

An International Journal

Website: http://www.elsevier.com/locate/cag/



Contents

Volume 31, Issue 2, 2007

In this issue the special topic is

POINT BASED AND VOLUME GRAPHICS

Guest Editors: Mario Botsch, Baoquan Chen, Raghu Machiraju, Torsten Möller

		SPECIAL ISSUE: POINT BASED AND VOLUME GRAPHICS
Mario Botsch, Baoquan Chen, Raghu Machiraju and Torsten Möller	155	Guest Editorial: Special section on the joint Symposium on Point-based Graphics and Volume Graphics 2006
Jagan Sankaranarayanan, Hanan Samet and Amitabh Varshney	157	A fast all nearest neighbor algorithm for applications involving large point-clouds
Yanci Zhang and Renato Pajarola	175	Deferred blending: Image composition for single-pass point rendering
Rémi Allègre, Raphaëlle Chaine and Samir Akkouche	190	A flexible framework for surface reconstruction from large point sets
Christian Fuchs, Tongbo Chen, Michael Goesele, Holger Theisel and Hans-Peter Seidel	205	Density estimation for dynamic volumes
Christopher J. Armstrong, Brian L. Price and William A. Barrett	212	Interactive segmentation of image volumes with Live Surface
		TECHNICAL SECTION
Yoshitomo Jo, Masafumi Oka, Akinori Kimura, Kyoko Hasegawa, Ayumu Saitoh, Susumu Nakata, Akihiro Shibata and Satoshi Tanaka	230	Stochastic visualization of intersection curves of implicit surfaces
Shengjun Liu, Xiaogang Jin, Charlie C.L. Wang and Kin-chuen Hui	243	Ellipsoidal-blob approximation of 3D models and its applications
Feng Dong, Gordon Clapworthy and Hai Lin	252	Pseudo surface-texture synthesis

(continued)

Indexed in GMT Abstr, Cam Sci Abstr, Comput Cont, Curr Cont,® Research Alert®, Curr Cont/CompuMath, Curr Cont/Eng Tech & Applied Sci. Curr Cont SCISEARCH® Data, Eng Ind, Ergon Abstr, Info Sci, Abstr, INSPEC Data, PIRA, SSSA/CISA/ECA/ISMEC

ISSN 0097-8493

TYPESET BY MACMILLAN INDIA LTD., BANGALORE-25 PRINTED IN GREAT BRITAIN BY POLESTAR WHEATONS LTD, EXETER







0097-8493(200704)31:2:1-Q